

868 428\*288/CCLS  
1137 428\*290/CCLS  
14129 LATEX

L1 296 (428\*288/CCLS OR 428\*290/CCLS) AND LATEX

=> s 11 and composite  
64746 COMPOSITE

L2 91 L1 AND COMPOSITE

=> s 12 and (tile or board or panel)  
3933 TILE  
54695 BOARD  
79752 PANEL

L3 24 L2 AND (TILE OR BOARD OR PANEL)

=> s 11 and (tile or board or panel)d 13 1-24  
MISSING OPERATOR 'PANEL'D L3'

=> s 11 and (tile or board or panel)  
3933 TILE  
54695 BOARD  
79752 PANEL

L4 55 L1 AND (TILE OR BOARD OR PANEL)

=> s 13 and 14  
L5 24 L3 AND L4

=> s 13 or 14  
L6 55 L3 OR L4

=> d 16 1-55

1. ~~4,880,119~~, Jan. 24, 1989, Resilient, wear-and weather-resistant

**comPosite** surface material; Richard A. Kolar, 428\*283; 156\*278, 279, 280;  
428\*284, ~~290~~, 314.4, 317.1

2. ~~4,770,544~~, Oct. 18, 1988, Low toxic navy **board** facing; Charles E.  
Jones, et al., 156\*60; 52\*515; 106\*18.12, 18.26; 156\*71; 252\*608; 427\*397.8;  
428\*253, 268, ~~290~~, 442, 913, 920 [IMAGE AVAILABLE]

3. ~~4,702,957~~, Oct. 27, 1987, Binders for nonwovens based on EVA-maleate  
copolymers; Paul R. Mudge, ~~428\*288~~; 5\*482, 487, 499, 502; 8\*181, 184;  
427\*389.9, 392, 394, 396; ~~428\*290~~; 604\*365, 374, 375, 377

4. ~~4,695,503~~, Sep. 22, 1987, Coated, oriented, polymer film laminate; Leland  
.. Liu, et al., 428\*207; 264\*176.1; 428\*200, 282, ~~288~~, 327, 331, 349,  
461, 463, 484, 510, 516, 518, 520, 910

5. ~~4,459,412~~, Apr. 21, 1987, Method for adhering a coating material to  
densified random-fiber **comPosite** sheet; Ritchey O. Newman, et al.,

156\*322; 138\*143, 146; 427\*316; 428\*86, **290**, 291

6. ~~4,617,230~~, Oct. 14, 1986, **Latex** containing odor inhibitor; Pravinchandra K. Shah, et al., **428\*288**; 427\*36, 223; 428\*274, 289, **290**, 905, 913; 524\*831; 604\*359

7. ~~4,610,920~~, Sep. 9, 1986, Binders for nonwovens; Paul R. Mudge, et al., **428\*288**; 427\*391, 392, 394; **428\*290**; 524\*502

8. ~~4,610,919~~, Sep. 9, 1986, Binder for fibrous padding; James Kent, 428\*285; 427\*421, 428\*287, **288**, **290**; 524\*513, 514

9. ~~4,609,580~~, Sep. 2, 1986, Absorbent floor mat; Luann T. Rockett, et al., 428\*198, 187, **288**, 297, 303, 340

10. ~~4,609,433~~, Sep. 2, 1986, Sheet composites containing crystalline phosphate fibers; Marvin M. Crutchfield, et al., 162\*145, 152, 164.3, 164.6,

168.1, 169, 170; 428\*219, **288**, **290**, 338, 379, 392, 401, 704

11. ~~4,548,678~~, Oct. 22, 1985, Flexible sheet material and articles made therefrom; Philip Laflin, et al., 162\*146, 164.6, 168.2, 175, 181.9; 418\*152; **428\*288**, 326, 408, 902

12. ~~4,547,422~~, Oct. 15, 1985, Fabric reinforced multiple ply conveyor belt; Brian H. Oliver, et al., 428\*286; 156\*137; 198\*847; **428\*290**, 475.8, 506, 520

13. ~~4,532,176~~, Jul. 30, 1985, Fibrous material comprised of vermiculite coated fibers; Peter J. Briggs, et al., **428\*288**; 106\*18.12; 428\*372, 375, 378, 389, 392, 401

14. ~~4,518,649~~, May 21, 1985, Soil releasing textiles containing fluorochemical soil release agents and method for producing same; Robert C. Wang, et al., 428\*284; 5\*482, 502; 427\*393.4; 428\*224, 287, **290**, 421,

422, 913

15. ~~4,507,342~~, Mar. 26, 1985, Polymers adherent to polyolefins; Andrew J. Kielbania, Jr., 428\*90, **290**, 394, 516, 522

16. ~~4,504,537~~, Mar. 12, 1985, Rug underlay comprising open lattice with partially fused needle punched fiber layers; Charles S. Mussallem, Jr., 428\*167; 264\*505; 428\*91, 95, 172, 234, 235, 239, 247, 252, 284, **288**, 300, 301

17. ~~4,495,238~~, Jan. 22, 1985, Fire resistant thermal insulating structure and garments produced therefrom; Joseph G. Adiletta, 428\*215, 236, 284, 285, 286, 287, **288**, 903, 920, 921

18. ~~4,476,175~~, Oct. 9, 1984, Building materials comprising non-woven webs; John S. Forry, et al., 428\*170; 156\*62.4, 62.8; 264\*510; 428\*171, 172, 281, 286, 287, **288**

19. ~~4,472,470~~, Sep. 18, 1984, Fibrous **composite** materials and the production and use thereof; Peter J. Briggs, et al., 428\*283; 162\*181.4, 181.5, 181.6, 181.8; 428\*281, **288**, 324, 372, 454

20. ~~4,460,643~~, Jul. 17, 1979, Nonwoven fibrous backing for vinyl wallcover; William P. Stevens, et al., 428\*284, 286, 287, **290**, 298, 326, 343, 354, 904.4

21. ~~4,443,903~~, Apr. 24, 1984, **Composite** upholstered furniture or mattress assembly with flame retardant-smolder resistant textile backcoated fabric layer; George J. Leiber, 5\*459; 2\*81; 5\*483, D1\*1; 428\*248, 262, 264, 276, 277, **290**, 510, 526, 527, 920; 524\*512
22. ~~4,434,521~~, Mar. 6, 1984, Applicator for applying a coating to a surface; Emil Martin, et al., 15\*230.11, 209R, 227; 29\*132; **428\*290**
23. ~~4,413,020~~, Feb. 21, 1984, Sheet-like material, heat-insulating material derived therefrom and methods of manufacturing same; Hiroshi Narukawa, et al., 428\*113; 162\*159; 428\*283, **288**, 323, 408, 443, 902, 920
24. ~~4,429,216~~, Jan. 31, 1984, Conductive element; Alan Brigham, 219\*528, 529, 540, 548, 549; 338\*211; 427\*121, 122, 180, 197, 202, 282, 299, 397.7; 428\*87, 95, 96, 97, 195, 201, 204, 207, 208, 283, 286, **288**, 289, 302, 303, 337, 339, 901
25. ~~4,425,126~~, Jan. 10, 1984, Fibrous material and method of making the same using thermoplastic synthetic wood pulp fibers; George A. M. Butterworth, et al., 604\*366; 264\*119, 126, 128; 428\*17, 152, 181, 198, 286, **290**, 296, 302, 310.5, 316.6; 604\*367, 375
26. ~~4,414,267~~, Nov. 8, 1983, Method for treating discontinuous cellulose fibers characterized by specific polymer to plasticizer and polymer-plasticizer to fiber ratios, fibers thus treated and composites made from the treated fibers; Aubert Y. Coran, et al., **428\*288**, 294, 295, 302, 326, 361; 524\*14, 35
27. ~~4,379,808~~, Apr. 12, 1983, Sheet type forming **board** and formed **board** products; John N. Cole, et al., 428\*438; 156\*62.2, 196, 242; 162\*142, 181.1; 264\*109, 112, 119; **428\*288**, 326, 327, 441, 454, 511, 535
28. ~~4,363,847~~, Dec. 14, 1982, Flexible sheet material; Brian Hargreaves, et al., 428\*283; 162\*181.6; 277\*235B; 428\*237, 241, **288**, 324, 326, 331, 451
29. ~~4,356,229~~, Oct. 26, 1982, Bonded nonwoven fabrics suitable for diaper coverstock; John G. Brodnyan, et al., **428\*288**; 128\*155, 156; 428\*297; 524\*824, 833
30. ~~4,328,167~~, Mar. 16, 1982, Nonwoven fabric and method of production thereof; Marvin Wishman, **428\*288**; 28\*107, 112; 156\*62.2, 62.4, 62.6, 62.8, 308.2; 428\*95, 113, 294, 296, 300
31. ~~4,271,228~~, Jun. 2, 1981, Sheet material containing exfoliated vermiculite; Richard P. Foster, et al., 428\*281; 277\*22, 166, 235B; 428\*237, 241, **288**, 323, 324, 325, 328, 920
32. ~~4,260,660~~, Apr. 7, 1981, Use of sulphur as an additive to inhibit the smoldering combustion of materials; Robert J. McCarter, 428\*284; 5\*459; 29\*91.1, 91.5; 297\*DIG.5; 427\*393.3; 428\*286, 287, 289, **290**, 291, 304.4, 341, 543, 688
33. ~~4,245,689~~, Jan. 20, 1981, Dimensionally stable cellulosic backing web; Henry P. Grand, et al., 162\*134, 135, 137, 145, 146, 158, 161, 162, 168.1, 168.2, 168.7, 169, 172, 181.1, 181.5, 181.7, 183, 184; 428\*236, 286, **288**, **290**, 297, 304.4, 385, 391
34. ~~4,235,027~~, Nov. 25, 1980, Laminated insole; Tej K. Singh, 36\*44; 428\*244, 281, **290**, 317.9, 408

35. ~~4, 210, 562~~, Jul. 1, 1980, Cellulose-containing phenolic resin-based binder; Frank P. McCombs, 524\*44; ~~428\*290~~, 429, 436; 524\*594

36. ~~RE 30, 233~~, Mar. 18, 1980, Multiple layer decorated paper, laminate prepared therefrom and process; William C. Lane, et al., 428\*207; 156\*277; 162\*181.6, 186; 264\*132; 427\*203, 205; 428\*219, ~~288~~, ~~290~~, 328, 329

37. ~~4, 174, 420~~, Nov. 13, 1979, Upholstered furniture having improved flame resistance; Colin Anolick, et al., ~~428\*290~~; 5\*459; 156\*78; 297\*452, DIG.5; 428\*304.4, 316.6, 921; 521\*85, 90, 92, 136

38. ~~4, 137, 110~~, Jan. 30, 1979, Method of making laminated insoles; Tej K. Singh, 156\*62.2; 36\*44; 156\*279; 427\*202, 243, 407.1; 428\*244, 281, ~~290~~, 308.4, 408

39. ~~4, 124, 554~~, Nov. 7, 1978, Post-formed aqueous phenolic resin dispersions;

John S. Fry, 523\*412; ~~428\*290~~, 460, 528, 531; 523\*424; 524\*316, 364, 376, 389, 503, 510

40. ~~4, 082, 886~~, Apr. 4, 1978, Liquid absorbent fibrous material and method of making the same; George A. M. Butterworth, et al., 428\*284; 156\*62.8, 181, 272.2, 275.1, 308.4, 309.6; 428\*286, ~~288~~, 289, 296, 298, 299, 310.5, 311.5, 535, 537.1, 913

41. ~~3, 998, 871~~, Dec. 21, 1976, Sulfonated isocyanate compositions; Robert C. Carlson, 528\*71; 156\*62.8, 77; 427\*337; 428\*224, ~~288~~; 429\*122, 249; 525\*460; 528\*59; 558\*240; 560\*13 [IMAGE AVAILABLE]

42. ~~3, 998, 870~~, Dec. 21, 1976, Sulfonated aromatic polyisocyanates and preparation of stable anionic polyurethane or polyurea latices therefor; Robert C. Carlson, 528\*71; 156\*62.8, 77; 427\*337; 428\*224, ~~288~~; 525\*453; 528\*59; 558\*240; 560\*13 [IMAGE AVAILABLE]

43. ~~3, 983, 291~~, Sep. 28, 1976, Silanol-containing urethane dispersions; Joe H-S Chang, ~~428\*290~~, 311.1, 311.7, 423.4, 425.1, 425.6, 425.8, 447, 457

44. ~~RE 28, 957~~, Sep. 7, 1976, Synthetic resin compositions and methods of utilizing the same; Arthur H. Drelich, et al., 427\*331, 283, 288, 322, 324, 340, 341, 342; 428\*198, ~~290~~; 524\*407, 413, 416

45. ~~3, 963, 843~~, Jun. 15, 1976, Surface texture for fibrous boards; Fred C. Norgard, 428\*147; 156\*279; 162\*152; 427\*188, 198, 262; 428\*159, 161, 172, 195, 206, 207, ~~290~~, 313.5, 327

46. ~~3, 955, 031~~, May 4, 1976, Flame resistant building material; Isaac Palmer Jones, et al., ~~428\*288~~; 156\*309.6, 324.4; 428\*311.5, 337, 342, 442, 537.7, 703, 921

47. ~~3, 953, 632~~, Apr. 27, 1976, Resin impregnated mats and method of making the same; Leonard W. Robinson, 428\*95, 96, 97, 286, ~~290~~

48. ~~3, 940, 532~~, Feb. 24, 1976, Needled textile fabric with a thin polymeric coating thereon; Alexander M. Smith, II, 428\*218; 28\*115; 428\*151, 283, ~~290~~, 300, 301, 904

49. ~~3, 930, 074~~, Dec. 30, 1975, Synthetic resin compositions and methods of applying the same to porous materials to control migration thereon; Arthur H. Drelich, et al., 427\*341, 302, 303, 342; 428\*262, ~~290~~, 514; 524\*28, 45

50. ~~3, 930, 073~~, Dec. 30, 1975, Migration control resin compositions and methods of using the same on porous materials; Arthur H. Drelich, et al., 427\*341, 302, 303, 342, 428\*262, ~~290~~, 514, 524\*28, 45

51. ~~3,928,676~~, Dec. 23, 1977, Synthetic resin compositions and methods applying the same to porous materials to control migration thereon; Arthur H. Drelich, et al., 427\*341, 302, 303, 342; 428\*262, **290**, 514; 524\*28, 45

52. ~~3,927,236~~, Dec. 16, 1975, Resin compositions, methods of applying the same to porous materials, and the resulting products; Jay S. Shultz, **428\*290**, 411.1

53. ~~3,908,057~~, Sep. 23, 1975, Fabric with thin surface matrix and method for production thereof; Alexander M. Smith, II, 428\*151; 28\*108, 112, 158, 163, 169; 428\*172, 235, 284, **288**, **290**, 300, 301, 302

54. ~~3,889,024~~, Jun. 10, 1975, Method of controlling the migration of resin compositions in the manufacture of porous materials; Arthur H. Drelich, et al., 427\*243, 342; **428\*290**; 524\*437

55. ~~3,873,486~~, Mar. 25, 1975, RESIN COMPOSITIONS; Arthur H. Drelich, 524\*413; 428\*198, **288**; 524\*99, 188, 407, 423, 427, 428, 432

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